Zavio D7110 Quick Installation Guide

Please follow the installation steps below to set up your D7110 Indoor IR Dome Camera.

Check the package contents against the list below. ***See P.1***

Physical overview. ***See P.1***

Install the hardware and connect all cables. ***See P.3***

Microsoft OS: Use the software CD to install Intelligent IP Installer. ***See P.6***

Access the IP Camera using Intelligent IP Installer. ***See P.6***

Change the Web Interface into your preferred language. ***See P.8***

Change lighting setting. ***See P.8***

Auto IRIS setting. ***See P.8***

Day Night function setting. ***See P.9***

Use IP Camera via Mobile Phone. ***See P.9***

Access to Internet via Static IP, Dynamic IP or both. ***See P.10***

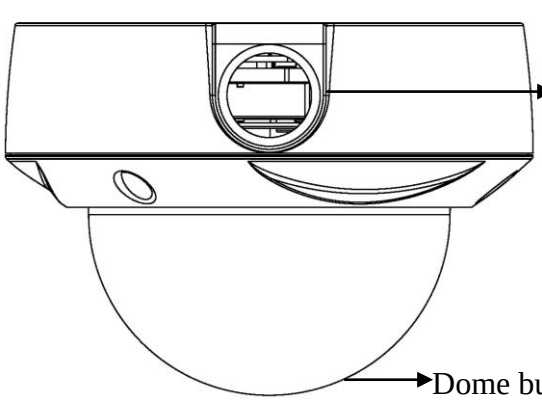
Application of IP Camera. ***See P.12***

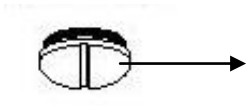
For more information, please check the User Manual available in the Software CD or you can download the latest software from http://www.zavio.com

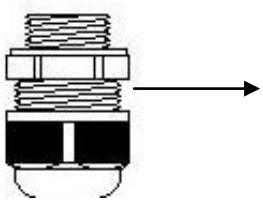
Package Contents

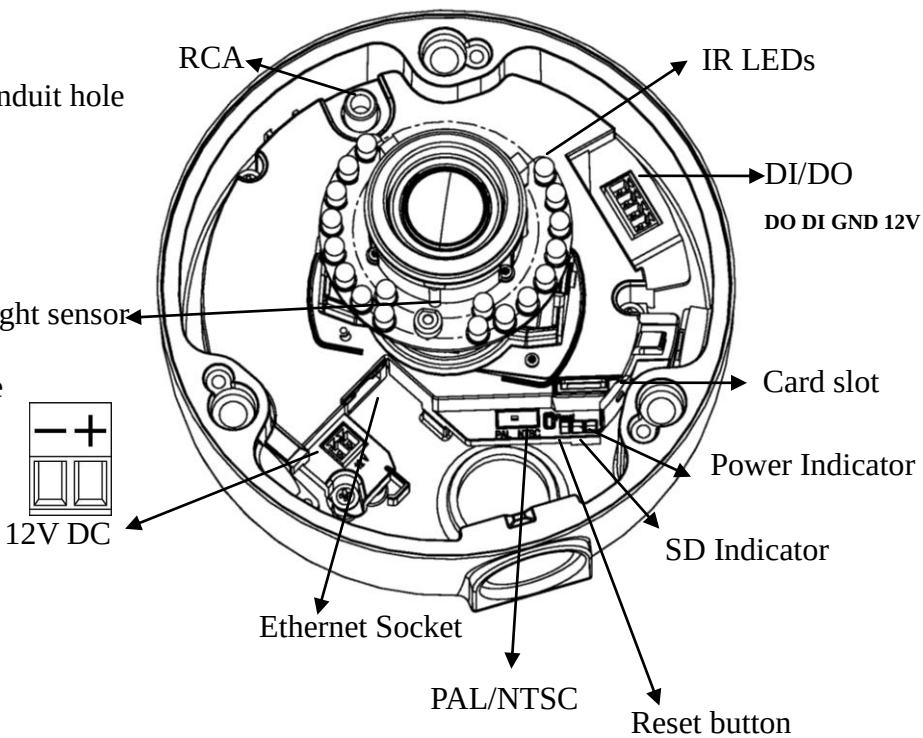
Camera	D7110 Outdoor IR IP Camera
Quick Installation Guide	Brief product information and quick installation
Software CD	IP Surveillance Software Intelligent IP Installer User Manuals Language Packs
Mounting Bracket	Three plastic anchors and screws, Alignment sticker 4pin, 2pin I/O terminal block
Adaptor	12V DC, max 9W

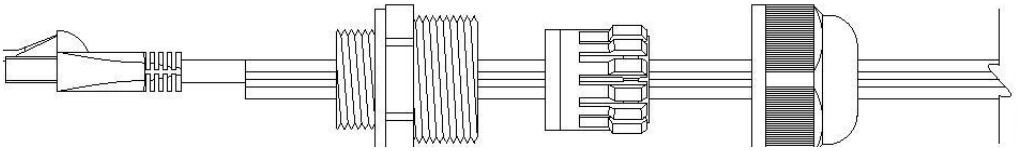
Physical overview











Note: The size of Cable gland is M25*1.5

LED Indictor:

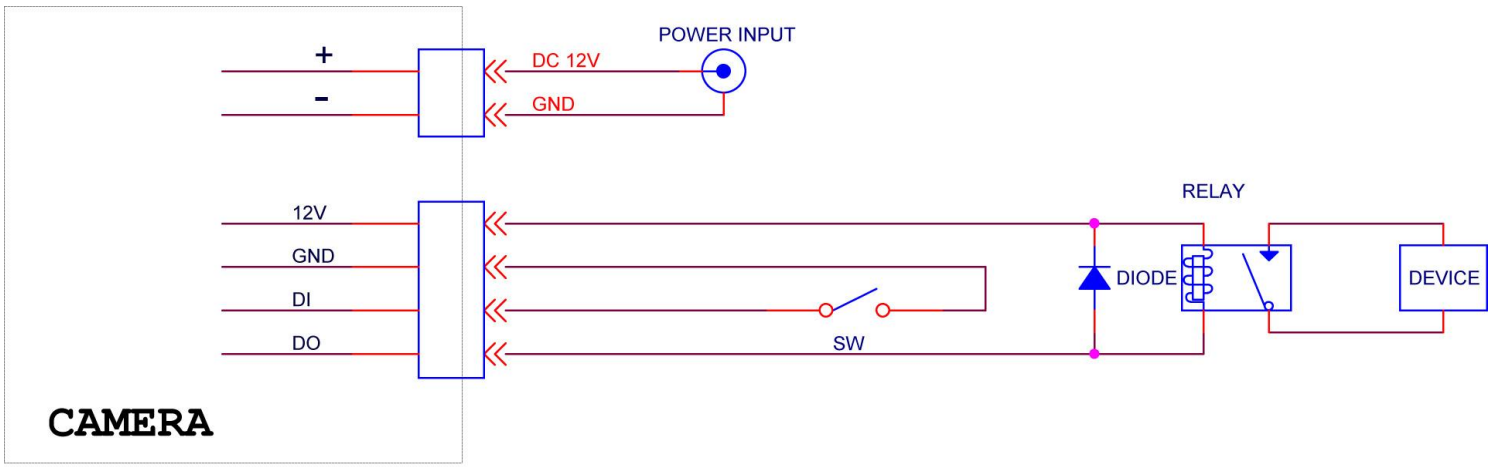
LED	Color	Indication
Network	**Green**	Steady green for Network link.
	Orange	Flash orange while Network activity.
Power	**Red**	Steady red for booting up process; Steady red 30 Seconds when WPS configure failed.
	Blue	Steady blue for booting up competition.
	Purple	Flash purple during firmware upgrading.
	Unlit	When you press reset button.
SD Card	**Orange**	Steady orange means SD card ready.
		Flashes orange while accessing SD card.

Reset: When the device is empowered, press the Reset Button to reboot the device, or hold the Reset Button for 10 seconds to set the settings back to factory default.

Reset process: Press reset button until indicator Unlit->steady red (booting up process)->steady blue (booting up competition)

Reset to default process: Press until indicator steady blue-> steady red(booting up process)->steady Blue (booting up competition)

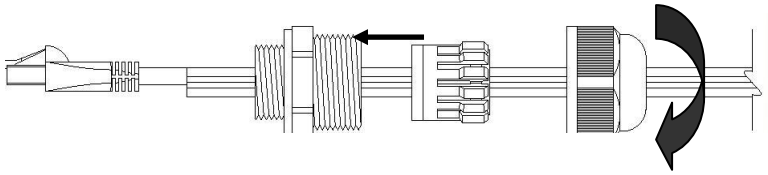
DI/DO Diagram



Install the hardware and make all cable connection

a. Install the hardware

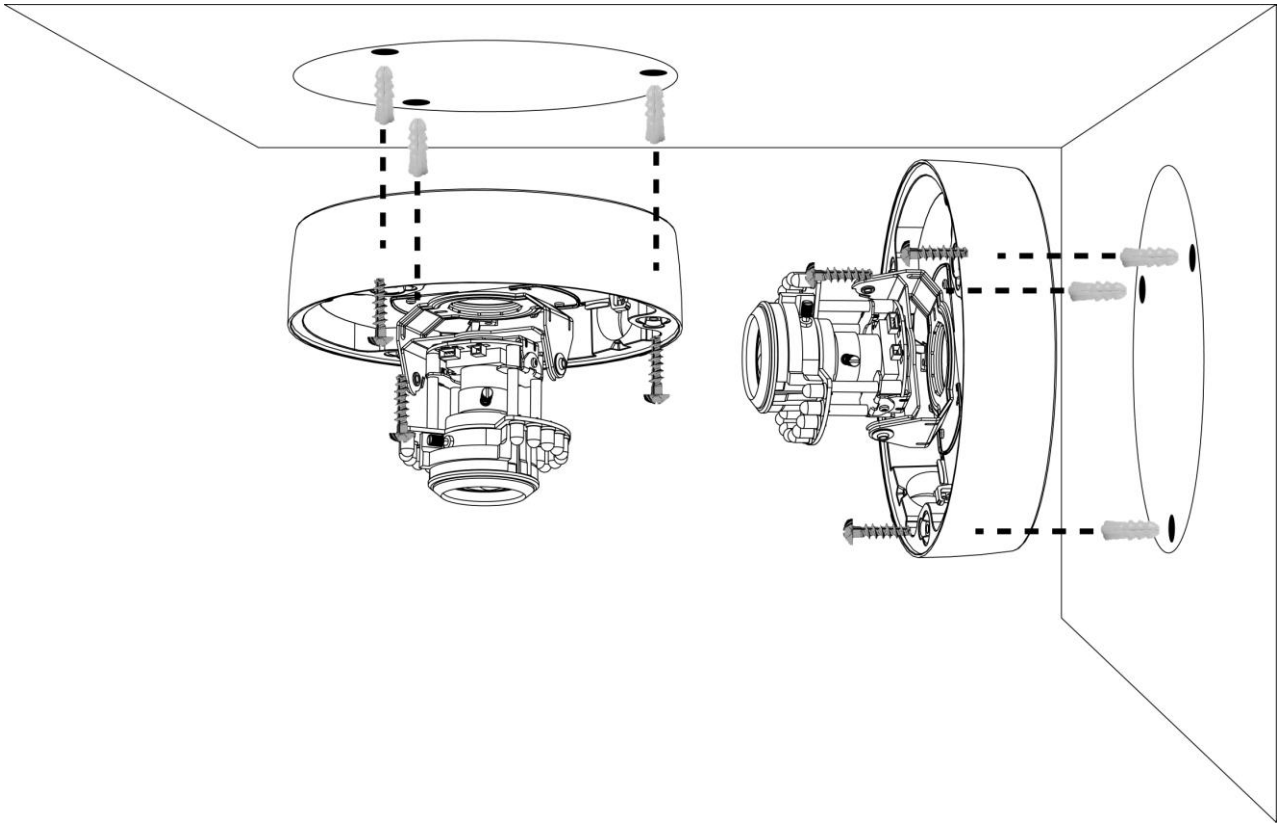
1. Connect the adaptor to the supplied 2pin I/O terminal block which shows positive and negative polarity on it. Please make sure the marked red wire should connect with the positive polarity or device won't work.
2. Loosen the tamper-proof screws using supplied special hex wrench and remove the dome cover from the rugged dome. Be careful do not scratch the cover glass.
3. Disassemble the cable gland.
4. Thread the network and I/O cable (power/digital input and digital output) through thread-lock sealing nut, claw (using the claw to round all cable) and cable gland. To seal all cable in the claw part tightly in case of water leaking.
5. Attach the cable gland to the conduit hole on the side or bottom of the rugged dome. Push the claw into the cable gland and tighten thread-lock sealing nut to secure the cables.



6. Use the supplied blind plug to fill unused conduit hole.
7. Use the cable gland is optional. For vandal-proof requirement of the cables, use vandal-proof conduits instead.

b. Wall mounting and Ceiling mounting

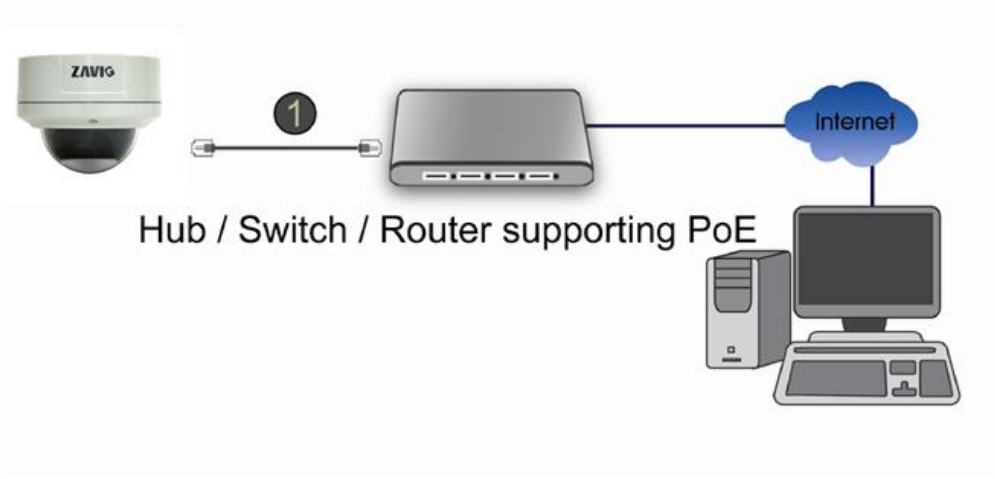
1. Attach the alignment sticker to the wall/ceiling and drill two pilot holes into it.
2. Hammer the supplied plastic anchors into the holes.
3. Align the three holes on the base of camera with the three plastic anchors on the wall and ceiling, insert the supplied screws to the corresponding hole and screw them.



c. Connect all cables

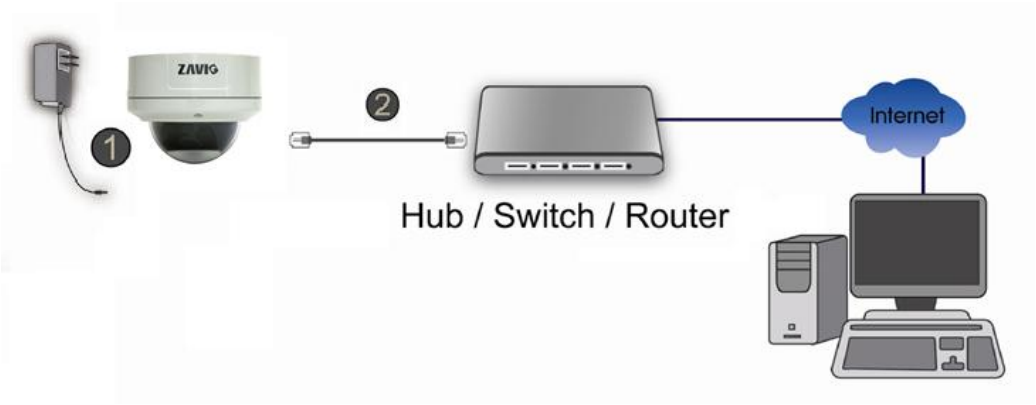
c1. Power over Ethernet (PoE)

1. Using a standard RJ-45 network cable, connect the IP Camera to a PoE-enabled Hub / Switch / Router



c2. Without Power over Ethernet (PoE) connection

1. Connect the power adaptor to the IP Camera.
2. Using a standard RJ-45 network cable, connect the IP Camera to a normal Hub / Switch / Router.

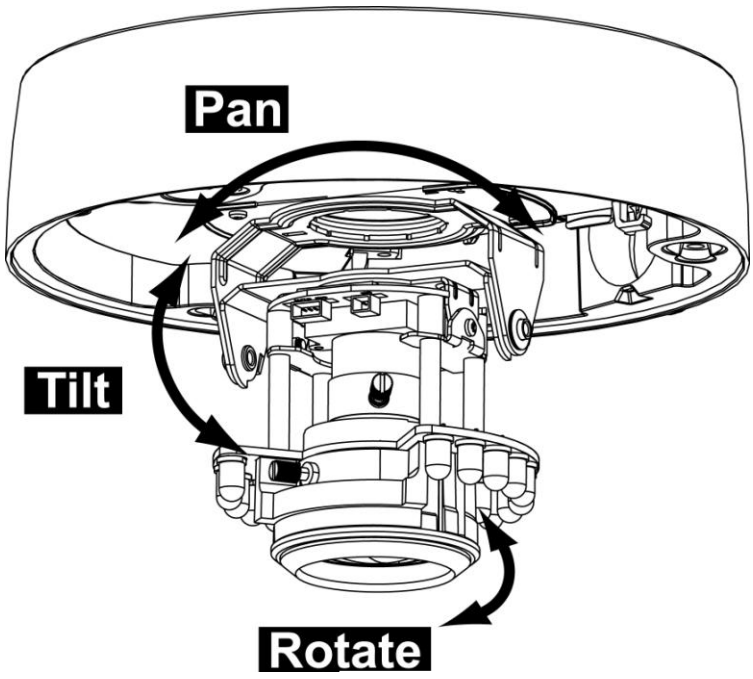


d. To adjust the view angle- 3 axis Mechanism Design

c1. Turn the lens module right and left to your desired pan position.

c2. Turn the lens module up and down to your desire tile position.

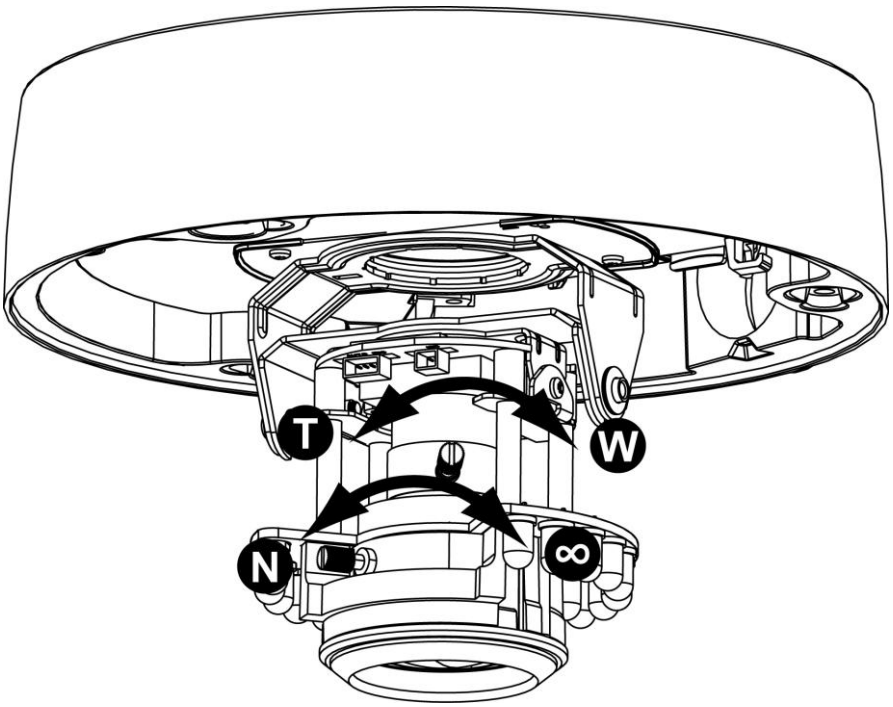
c3. Turn the lens module to adjust the image orientation to satisfied angle.



e. To adjust zoom puller and focus puller

d1. Loosen the zoom and focus pullers anti-clockwise to adjust the desire zoom range and focus.

d2. Lock the zoom and focus pullers by rotating the screw clockwise after get satisfied focus.

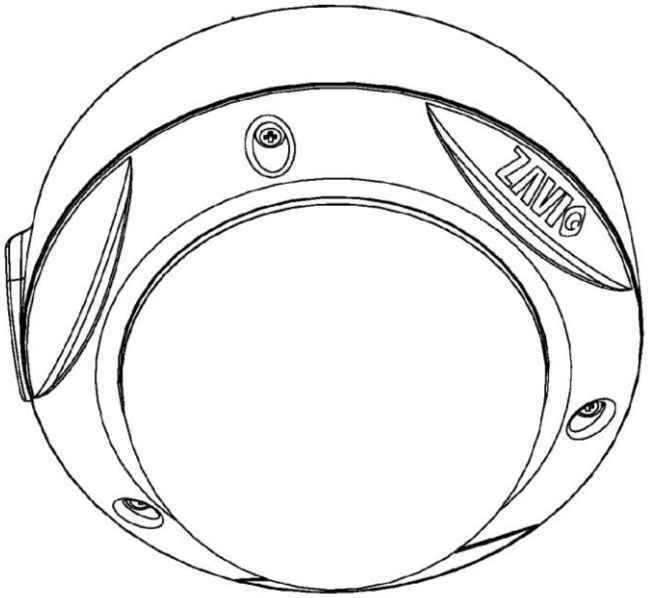


f. Completion

f1. Clean the dome bubble to remove the dust and finger print.

f2. Fix the tamper-proof screws using supplied special hex. Be careful do not scratch the cover glass.

F3. The installation is complete now.



Microsoft OS: Use the software CD to install Intelligent IP Installer

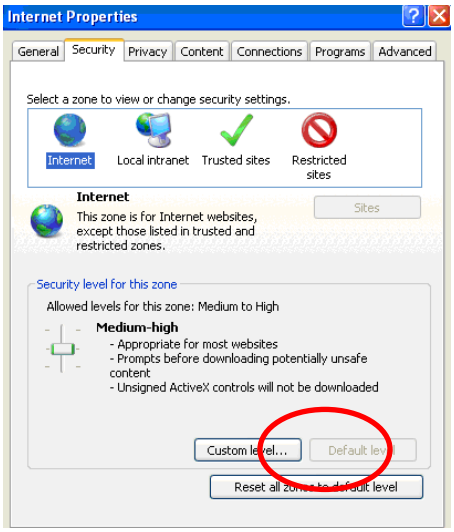
Power on your PC and insert the CD-ROM. The setup page will show up automatically. Please follow those steps below to install the firmware.

Select **"Intelligent IP Installer" and follow the installation process to complete the installation.**

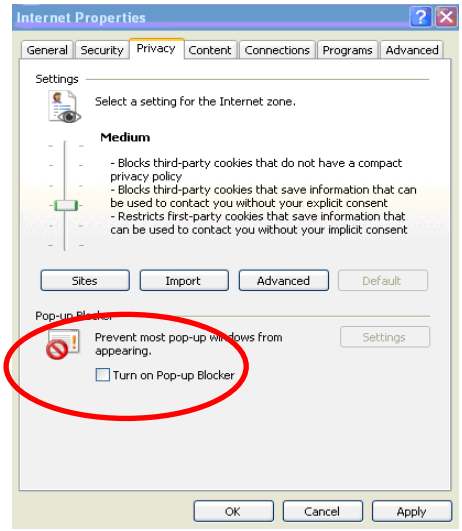
Access the IP Camera using Intelligent IP Installer

1. Before using Intelligent IP Installer, please check two setting.

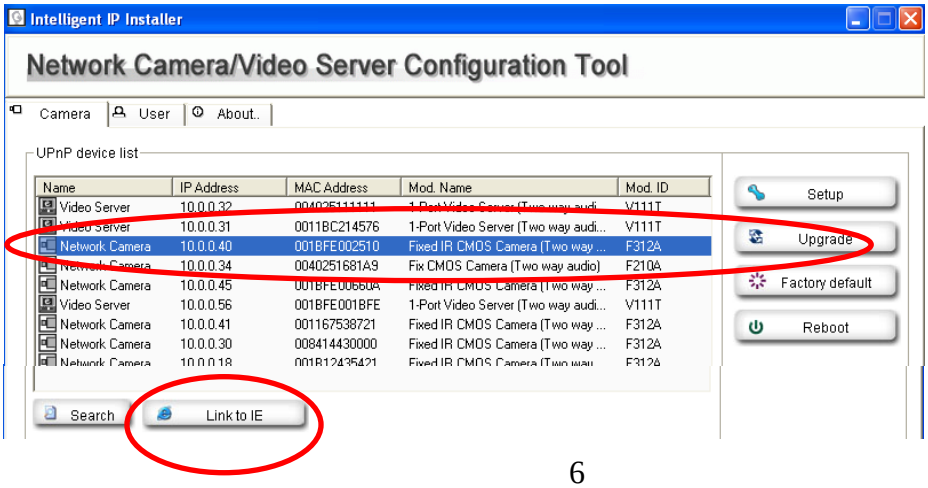
a. Browser's Internet Properties → Security → **Default Level**



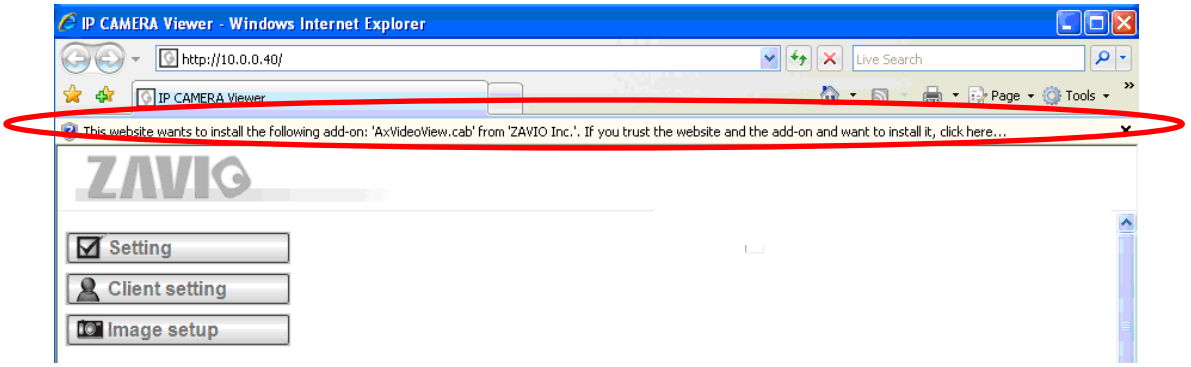
b. Browser's Internet Properties → Privacy → Uncheck **Pop-up Blocker**



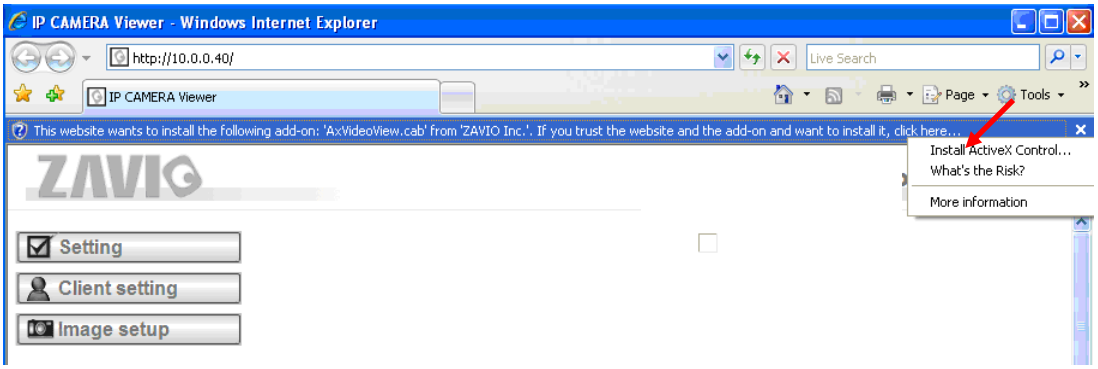
2. Click the Intelligent IP Installer Icon on your desktop. The main page will show up listing all active camera and video server devices. Select the relevant IP camera from the list and click **Link to IE.**


Intelligent IP Installer
Network Camera/Video Server Configuration Tool
Camera
User
About..
UPnP device list
Name
IP Address
MAC Address
Mod. Name
Mod. ID
Video Server 10.0.0.32 V111T
Video Server 10.0.0.31 0011BC214576 1-Port Video Server (Two way audi... V111T
Network Camera 10.0.0.40 001BFE002510 Fixed IR CMOS Camera (Two way ... F312A
Network Camera 10.0.0.34 0040251681A9 Fix CMOS Camera (Two way audio) F210A
Network Camera 10.0.0.45 F312A
Video Server 10.0.0.56 001BFE001BFE 1-Port Video Server (Two way audi... V111T
Network Camera 10.0.0.41 001167538721 Fixed IR CMOS Camera (Two way ... F312A
Network Camera 10.0.0.30 008414430000 Fixed IR CMOS Camera (Two way ... F312A
Setup
Upgrade
Factory default
Reboot
Search
Link to IE

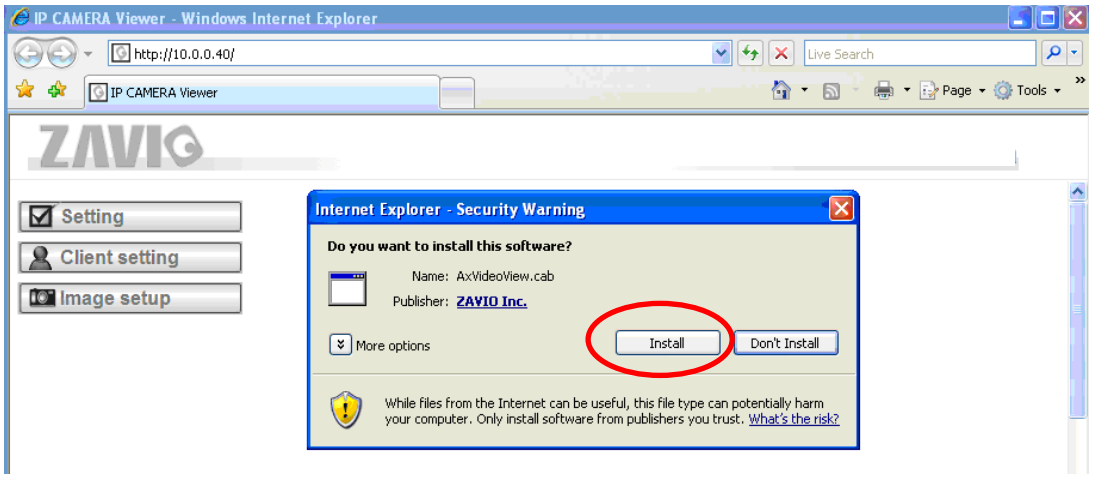
4. When accessing the IP Camera for the first time, a yellow information bar appears below the address bar:
This website wants to install the following add-on: 'AxvideoView.cab from 'Zavio Inc'.


IP CAMERA Viewer - Windows Internet Explorer
http://10.0.0.40/
IP CAMERA Viewer
This website wants to install the following add-on: 'AxVideoView.cab' from 'ZAVIO Inc.'. If you trust the website and the add-on and want to install it, click here...
Setting
Client setting
Image setup

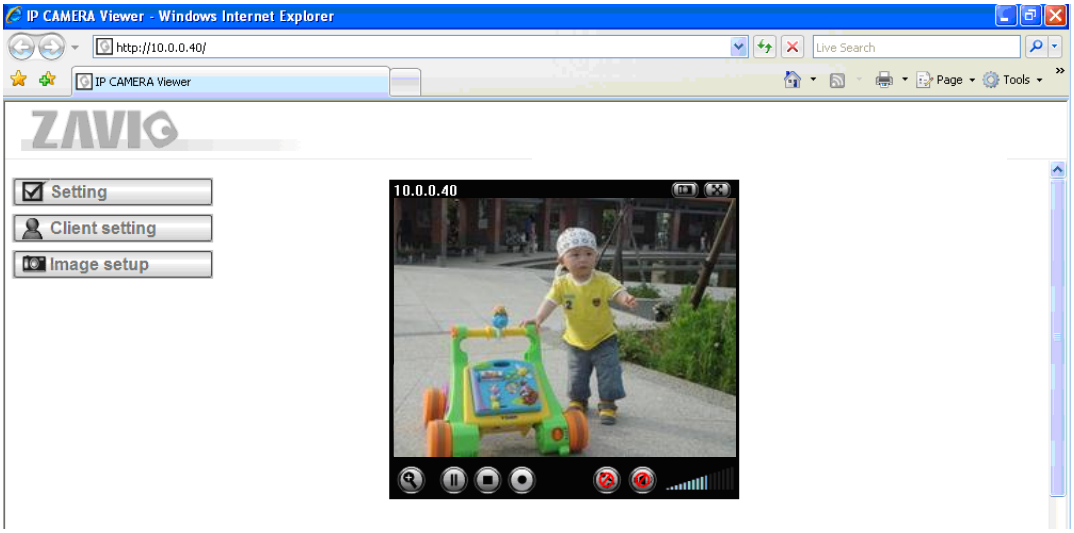
5. Click the information bar, and select **Install ActiveX control**.


IP CAMERA Viewer - Windows Internet Explorer
http://10.0.0.40/
IP CAMERA Viewer
This website wants to install the following add-on: 'AxVideoView.cab' from 'ZAVIO Inc.'. If you trust the website and the add-on and want to install it, click here...
Install ActiveX Control...
What's the Risk?
More information
Setting
Client setting
Image setup

6. Click **Install ActiveX.**


IP CAMERA Viewer - Windows Internet Explorer
http://10.0.0.40/
IP CAMERA Viewer
Setting
Client setting
Image setup
Internet Explorer - Security Warning
Do you want to install this software?
Name: AxVideoView.cab
Publisher: ZAVIO Inc.
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

7. Live video displays in the centre of your web browser.

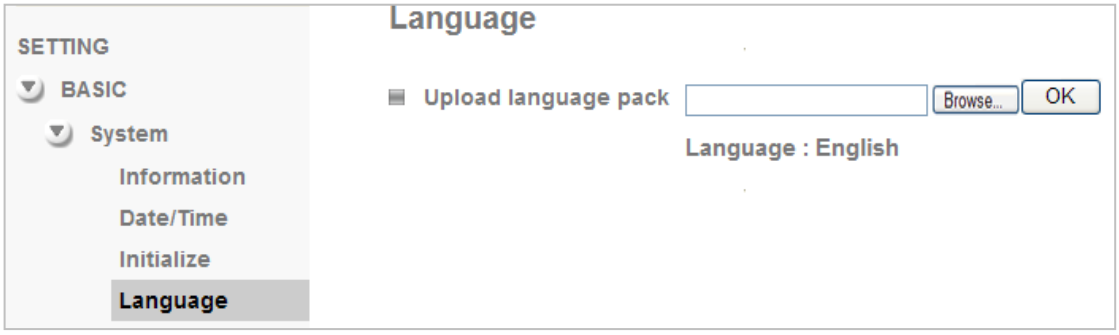


Change the Web Interface into your preferred language

Use the settings screen to set the language of the Web Interface.

Go to “Setting → Basic → System → Language”.

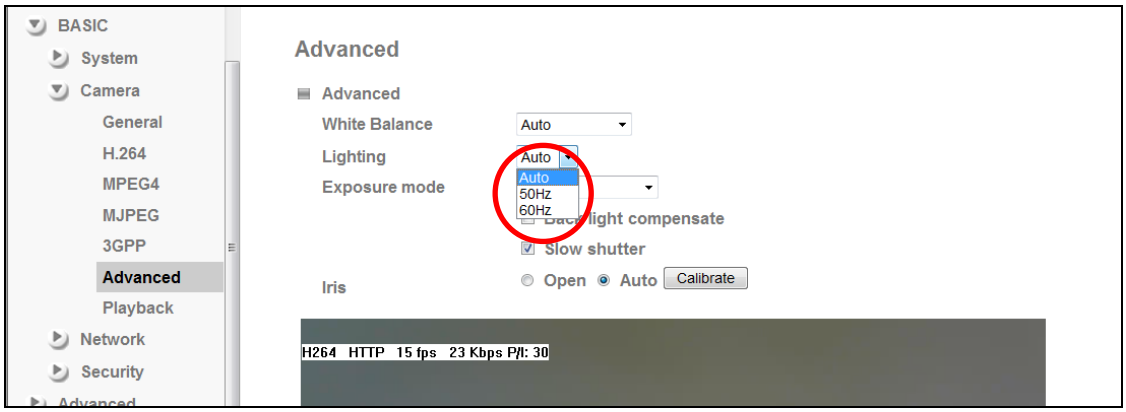
1. Insert Software CD into your CD-ROM.
2. Browse and select the preferred language from language pack in the Software CD and then click OK.
3. The web interface will change into your preferred language.



Change lighting setting

The default setting of lighting environment is **Auto**. However, you may also select 50 or 60 Hz upon the lighting environment of your country.

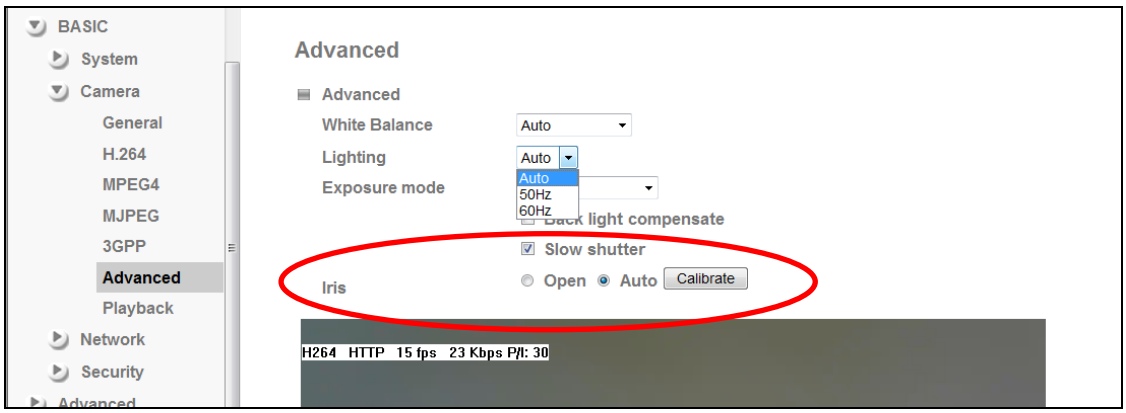
Go to “Setting → Basic → Camera → Advance”, choose the environment setting you wish.



Auto IRIS setting

The default setting of IRIS is open which means IRIS will open all the time. If you wish to use auto IRIS function, please choose Auto and click Calibrate icon, it might take 1-2 minutes to calibrate. Click OK icon at the bottom of this page after calibrating.

Go to “Setting → Basic → Camera → Advance”



Day Night function setting

1. **Night ICR Mode:**

IR and ICR can be controlled separately in case the device needs external IR illuminator. ICR will switch to day or night depending on threshold setting if the setting is auto ICR mode. ICR control can also be set by schedule, choose schedule mode and the Schedule icon will show up below.

2. **Switch delay:**

ICR will switch delay few seconds to avoid sudden brightness and darkness. The default setting of switch delay is 10 seconds; use pull-down options to select proper timing.

3. **Night IR Mode:**

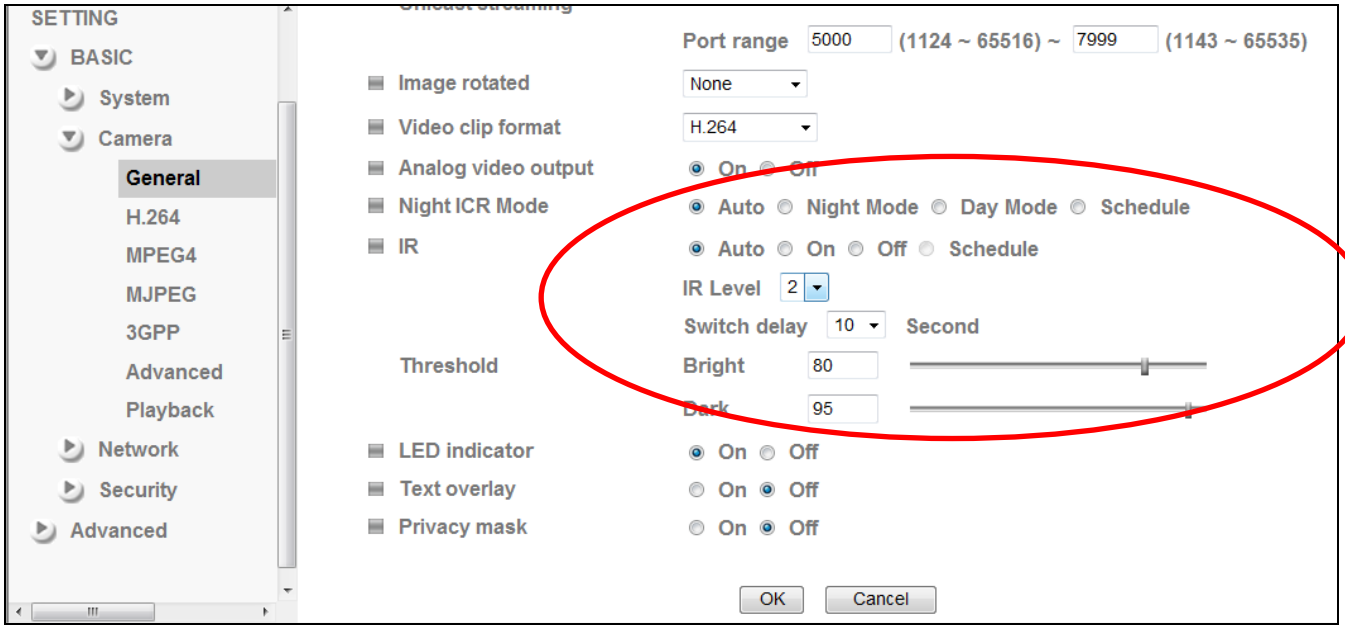
Two IR levels can be adjusted according to environment and distance of target object.IR will switch to on and off automatically depending on threshold setting if the setting is auto IR mode. IR control also can be set by schedule.

4. **IR Level:** Three IR levels can be adjusted manually according to target distance and view angle. If you wish to use wide view angle and shorter target distance, please set level1, otherwise, please set level 2 or 3.

5. **Threshold:**

Threshold value can be set according to applied environment. The default value of dark is 95 which means ICR and IR will switch to night mode when the environment is5lux. On the other hand, the default value of bright is 80 which means ICR and IR will switch to day mode the environment is 20 Lux.

Go to "Setting → Basic → Camera → General"



Use IP Camera via Mobile Phone

1. **Using IP Camera via iPhone**

Select Safari function → Enter IP address in the web link → enter username and password (**default value admin/admin**) → The Zavio user interface and Live Image will show up in the middle of the screen.

2. **Mobile phone viewing**

a. 3G Mobile Phone Streaming Viewing

For 3G mobile phone viewing, please type **" rtsp://<IP>:<PORT>/video.3gp "** into your 3G web media player.

<IP> is the IP address of your IP camera;

<PORT> is the RTSP port of your IP camera (Default value is 554.)

Example: rtsp://100.10.10.1:554/video.3gp

b. 2.5G Mobile Phone Viewing

b1. WAP viewing

For 2.5G WAP mobile phone viewing, type **" http://<IP>/mobile.wml "** into your 2.5G web browser.

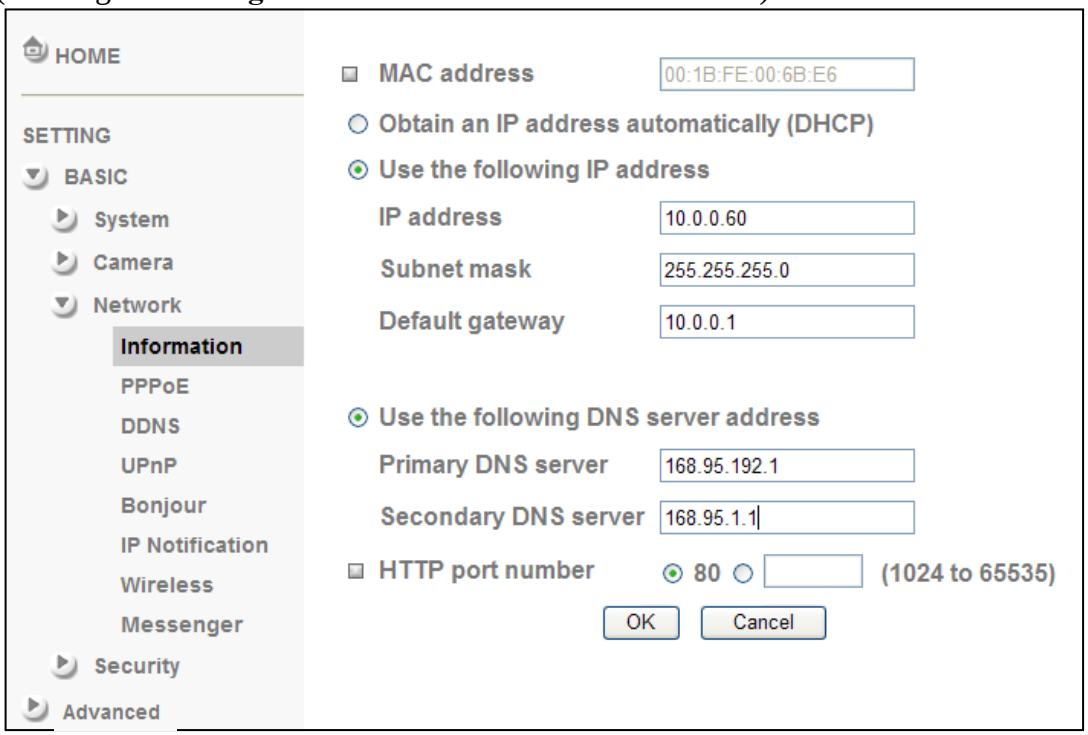
b1. Browser viewing

For 2.5G mobile phone browser viewing, type **"http:// <IP>/mobile.htm "** into your 2.5G web browser.

Access to Internet via Static IP, Dynamic IP or both

a. Internet connectivity of the IP camera can be established by inputting the cameras IP information within the **Information section**.

(Please go to **Setting → Basic → Network→ Information**)

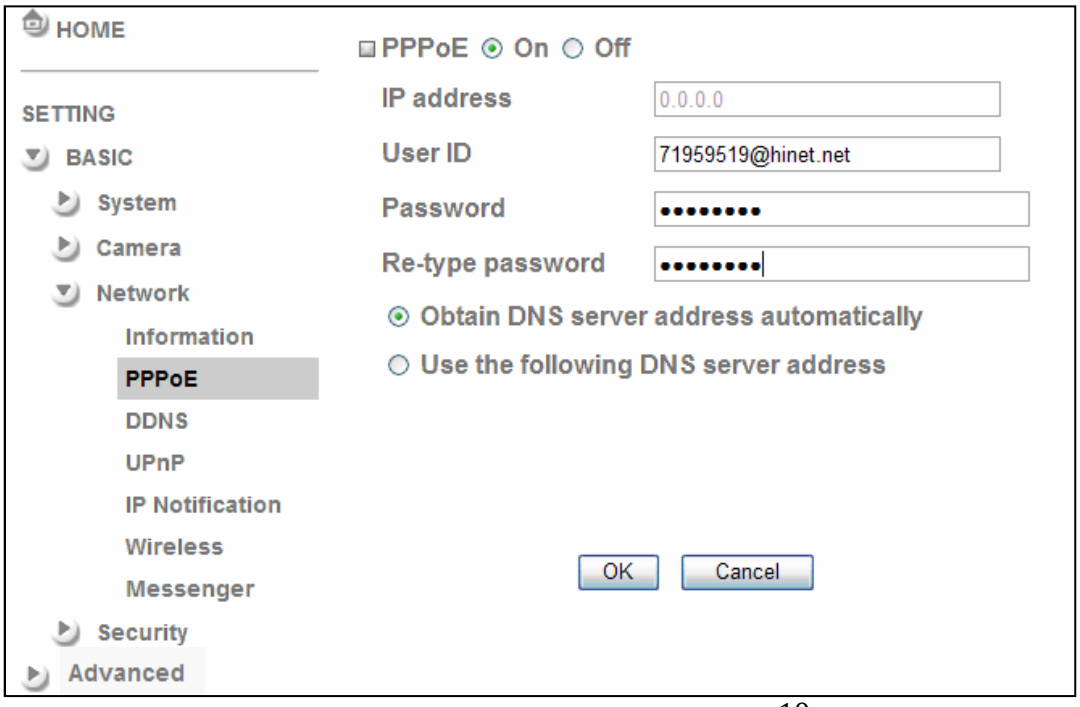


b. Internet Connectivity of the IP Camera can be established through PPPoE (Point-to-Point Protocol over the Ethernet) by inputting the username and password from your Internet Service Provider (ISP) within the **PPPoE section**.

(Please go to **Setting → Basic → Network→ PPPoE**)

Note 1: Please reboot the IP Camera, after changing the PPPoE settings.

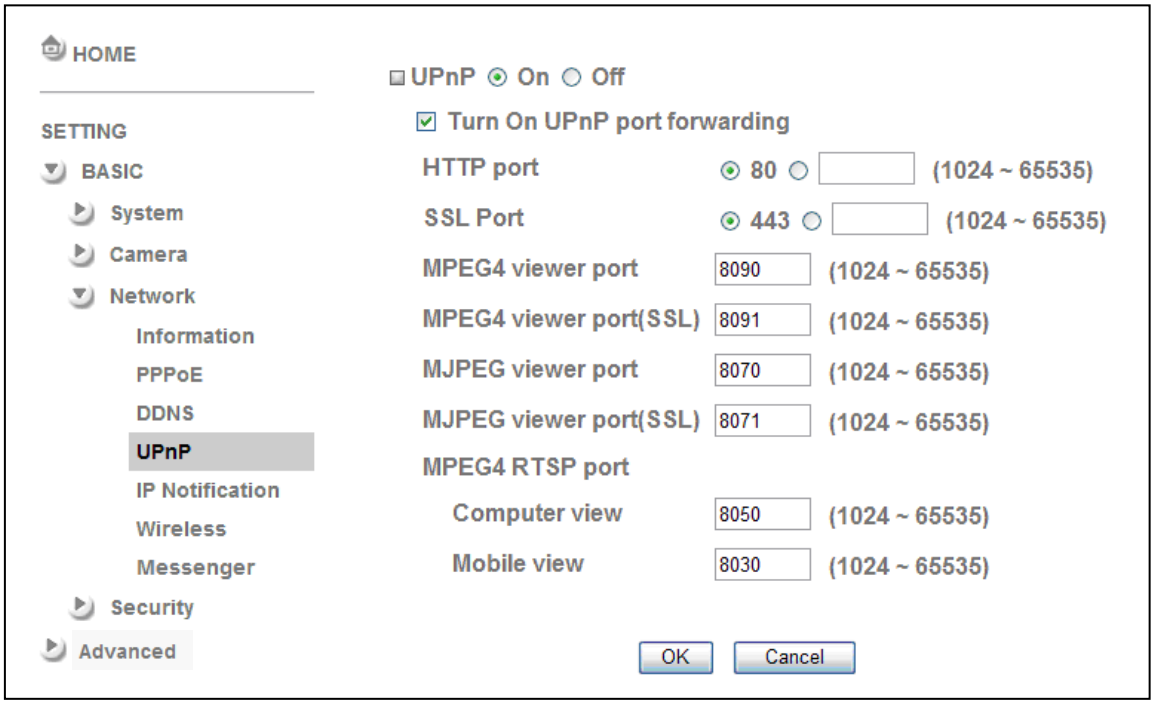
Note 2: Please turn on the DDNS and IP Notification function when using PPPoE.



c. Internet Connectivity of the IP Camera can be established if your router is UPnP (Universal Plug and Play) enabled. The IP camera is automatically detected and added to "My Network Places" on your computer. *Please note that only Home Routers manufactured after 2006 support the UPnP function.*

c1. If your router is a UPnP Internet Gateway Device (IGD), turn on the **UPnP function** within the UPnP section. (Please go **Setting → Basic → Network→ UPnP**)

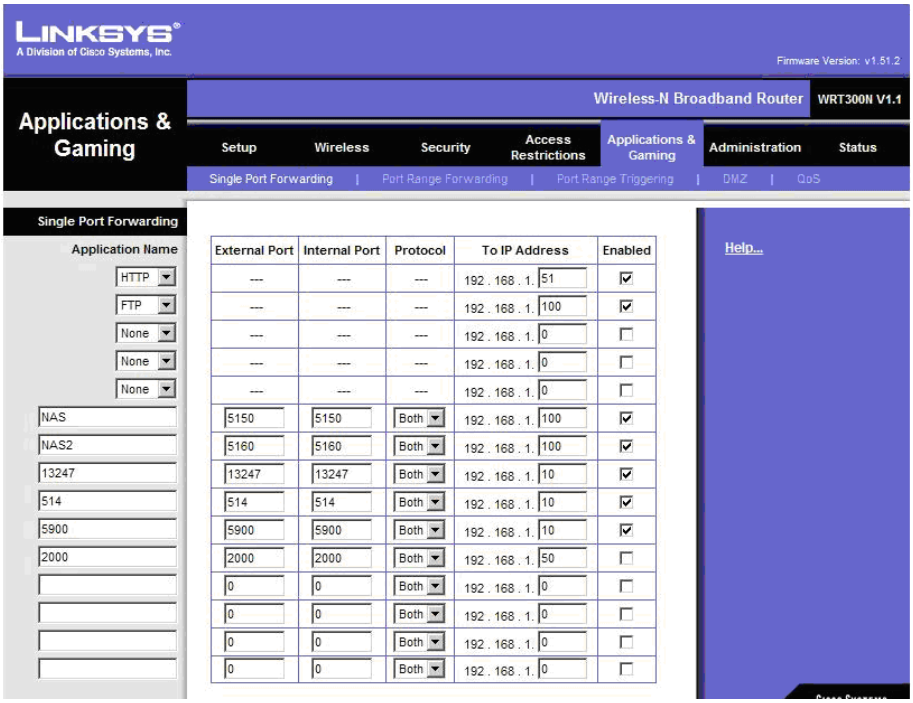
Note: If you turn on the UPnP Port Forwarding function, RTSP (Real Time Streaming Protocol) Port information will change to the illustrated value below.



c2. If your router is not a UPnP Internet Gateway Device, please setup Port Forwarding or Port Mapping

Note 1: Home Routers manufactured before 2006 do not support UPnP IGD function.

Note 2: Enterprise Routers do not support UPnP IGD function.



Application of IP Camera